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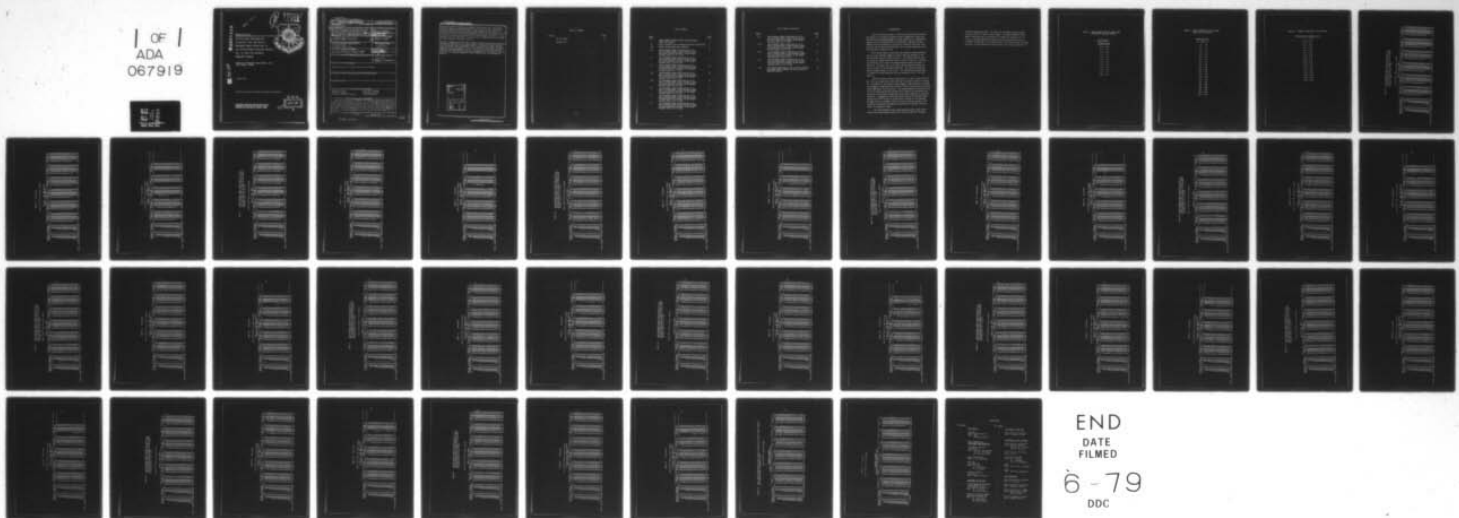
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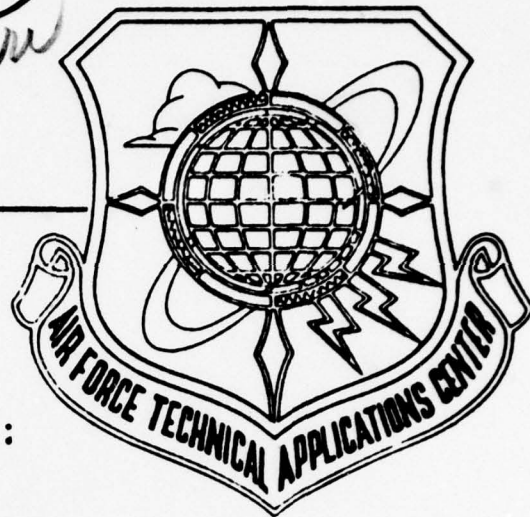
CALCULATIONAL PROCEDURE FOR
EVALUATING TIME- AND SPATIAL-
DEPENDENT ENERGY DEPOSITION IN
AIR FOR ANISOTROPIC NUCLEAR SOURCES:
VOL. II, DATA FOR ISOTROPIC
GAMMA-RAY SOURCES

Radiation Research Associates, Inc.
Fort Worth, Texas

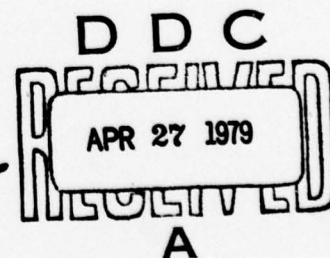
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sulting from neutron capture and inelastic scattering in air. The energy deposition data for line-beam sources and for point isotropic sources were found to compare favorably with similar data reported in the literature. The RENDER procedure was run utilizing energy deposition data from the conical source-data base for a 9-to-10-MeV gamma-ray source and the results of the convolution over source emission direction and time were found to be in good agreement with the input data, indicating that the RENDER procedure performs the time-and-angle convolution correctly.

Volumes II through IV of this report present tabulated data on the time dependent energy deposition in air versus range for neutron and gamma-ray point isotropic sources and for secondary gamma rays generated by point isotropic neutron sources. Also given in Vol. V are curve fit coefficients for use in computing the energy deposition in air versus distance and source emission angle for line beam sources of neutrons and gamma rays. Coefficient data are also given for secondary gamma-ray energy deposition by line beam neutron sources.

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I. INTRODUCTION

This is the second volume of a five-volume report which presents the results of an extensive parameter study on gamma-ray, neutron and neutron-produced secondary gamma ray energy deposition in a homogeneous medium of air ($\rho=1.225 \times 10^{-3} \text{ g/cm}^3$) and describes a computer procedure (RENDER) which was developed to utilize the parametric data when computing the time and spatial distributions of the energy deposition in air for anisotropic nuclear sources.

This volume presents calculated time dependent energy deposition data for point isotropic gamma-ray sources emitting radiation in the source energy intervals listed in Table I. The radial intervals used in storing the energy deposition data are given in Table II. The delay time intervals used to store the energy deposition data are given in Table III. The delay time is the time of energy deposition minus the time of arrival of the uncollided radiation. All source photons were emitted instantaneously by the source. The calculational methods used to compute the energy deposition data are described in Vol. I of this report.

The time dependent energy deposition data in units of $\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV}$ of source energy versus radial distance are given in Tables IV through XV. The numbers at the bottom of each column in these tables is the total time dependent energy deposition ($\text{keV sec}^{-1} / \text{keV}$ of source energy) occurring within 1500 meters from the source. The energy deposition occurring in the 0-to- 10^{-20} -second delay-time interval can be taken to be produced by the first-order scattering and absorption interactions undergone by the direct radiation. The gamma-ray energy deposition computed for retarded times greater than 10^{-20} seconds in a given radial interval is that produced by gamma rays that underwent their first-order collision outside of the deposition volume and then underwent second-order or greater collision within the deposition volume.

The time-integrated total energy deposition data versus radial distance and source-energy interval are listed in Table XVI for point-

isotropic gamma-ray sources. The units for the gamma-ray energy deposition data are $\text{keV m}^{-3}/\text{keV}$ of source energy. The energy deposition data given in Table XVI can be converted to air kerma rate (exposure rate in air ($\rho = 1.225 \times 10^{-3} \text{ g/cm}^3$)) by multiplying the energy deposition data by $4.708 \times 10^{11} \bar{E}_0$ where \bar{E}_0 is the average energy in the source energy interval. The units of the resulting air kerma rate are $\text{rad hr}^{-1}/\text{source photon sec}^{-1}$.

TABLE I. SOURCE ENERGY INTERVAL BOUNDS USED
FOR PRIMARY GAMMA-RAY PROBLEMS

<u>SOURCE ENERGY</u> <u>INTERVALS (MeV)</u>
9.0 - 10.0
8.0 - 9.0
7.0 - 8.0
6.0 - 7.0
5.0 - 6.0
4.0 - 5.0
3.0 - 4.0
2.0 - 3.0
1.0 - 2.0
0.5 - 1.0
0.1 - 0.5
0.01 - 0.1

TABLE II. RADIAL INTERVALS USED IN ENERGY
DEPOSITION CALCULATIONS

Radial Interval (m)	
0 -	10
10 -	20
20 -	40
40 -	60
60 -	80
80 -	100
100 -	125
125 -	150
150 -	175
175 -	200
200 -	250
250 -	300
300 -	350
350 -	400
400 -	450
450 -	500
500 -	600
600 -	800
800 -	1000
1000 -	1200
1200 -	1500

TABLE III. BOUNDS OF DEPOSITION TIME INTERVALS

DEPOSITION TIME INTERVAL (μsec)

0 - 10^{-14}
10^{-14} - 0.02
0.02 - 0.05
0.05 - 0.07
0.07 - 0.10
0.10 - 0.15
0.15 - 0.20
0.20 - 0.30
0.30 - 0.50
0.50 - 0.70
0.70 - 1.00
1.00 - 1.50
1.50 - 2.00
2.00 - 3.00
3.00 - 5.00
5.00 - 7.00
7.00 - 10.00

TABLE IV. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 0.01 to 0.1 MeV

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		0.0E-00 - 1.00E-20		1.00E-20 - 2.00E-08		2.00E-08 - 5.00E-08		5.00E-08 - 7.00E-08		7.00E-08 - 1.00E-07	
		0.0E-00	1.00E-20	1.00E-20	2.00E-08	2.00E-08	5.00E-08	5.00E-08	7.00E-08	1.00E-07	1.00E-07
0.0	0.0	3.090E	15	2.761E	02	2.504E	01	1.189E	01	5.515E	00
10.0	10.0	1.838E	14	2.937E	01	2.695E	00	1.468E	00	2.818E	00
20.0	20.0	1.297E	13	4.355E	00	7.095E	00	1.437E	00	2.004E	00
40.0	40.0	4.019E	12	1.305E	00	2.250E	01	1.877E	01	1.553E	00
60.0	60.0	1.236E	11	4.734E	01	6.284E	01	1.867E	01	1.458E	00
80.0	80.0	4.729E	11	1.910E	01	1.912E	02	1.870E	02	1.992E	01
100.0	100.0	1.385E	10	3.336E	02	2.055E	02	2.098E	02	1.817E	00
125.0	125.0	4.312E	09	1.270E	03	7.233E	03	1.098E	03	1.080E	00
150.0	150.0	1.585E	08	2.738E	03	1.523E	03	1.659E	03	1.640E	00
175.0	175.0	4.718E	07	1.820E	04	2.443E	04	1.650E	04	1.793E	00
200.0	200.0	1.324E	06	3.921E	05	1.703E	05	1.653E	05	1.642E	00
250.0	250.0	4.240E	05	2.801E	06	2.743E	06	1.620E	06	1.846E	00
300.0	300.0	1.000E	04	7.700E	06	5.010E	07	2.477E	07	1.257E	00
350.0	350.0	4.000E	03	1.330E	07	1.000E	08	1.000E	08	1.000E	00
400.0	400.0	1.000E	02	1.000E	08	1.000E	09	1.000E	09	1.000E	00
450.0	450.0	1.000E	01	1.000E	09	1.000E	10	1.000E	10	1.000E	00
500.0	500.0	1.000E	00	1.000E	10	1.000E	11	1.000E	11	1.000E	00
600.0	600.0	1.000E	00	1.000E	11	1.000E	12	1.000E	12	1.000E	00
800.0	800.0	1.000E	00	1.000E	12	1.000E	13	1.000E	13	1.000E	00
1000.0	1000.0	1.000E	00	1.000E	13	1.000E	14	1.000E	14	1.000E	00
1200.0	1200.0	1.000E	00	1.000E	14	1.000E	15	1.000E	15	1.000E	00
1500.0	1500.0	1.000E	00	1.000E	15	1.000E	16	1.000E	16	1.000E	00
TOTAL ENERGY DEPOSITION/SEC		3.033E	19	5.759E	06	2.301E	06	1.711E	06	1.394E	06
		1.00E-07		1.00E-07		1.00E-07		1.00E-07		1.00E-07	
		3.436E	00	3.436E	00	3.436E	00	3.436E	00	3.436E	00
		1.573E	00	1.573E	00	1.573E	00	1.573E	00	1.573E	00
		1.742E	01	1.742E	01	1.742E	01	1.742E	01	1.742E	01
		2.260E	01	2.260E	01	2.260E	01	2.260E	01	2.260E	01
		1.590E	02	1.590E	02	1.590E	02	1.590E	02	1.590E	02
		1.544E	02	1.544E	02	1.544E	02	1.544E	02	1.544E	02
		1.980E	03	1.980E	03	1.980E	03	1.980E	03	1.980E	03
		1.260E	03	1.260E	03	1.260E	03	1.260E	03	1.260E	03
		1.680E	04	1.680E	04	1.680E	04	1.680E	04	1.680E	04
		1.660E	04	1.660E	04	1.660E	04	1.660E	04	1.660E	04
		1.810E	05	1.810E	05	1.810E	05	1.810E	05	1.810E	05
		1.020E	06	1.020E	06	1.020E	06	1.020E	06	1.020E	06
		1.059E	06	1.059E	06	1.059E	06	1.059E	06	1.059E	06
		1.000E	07	1.000E	07	1.000E	07	1.000E	07	1.000E	07
		1.000E	08	1.000E	08	1.000E	08	1.000E	08	1.000E	08
		1.000E	09	1.000E	09	1.000E	09	1.000E	09	1.000E	09
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		1.000E	15	1.000E	15	1.000E	15	1.000E	15	1.000E	15

TABLE IV. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	.01 TO 10 MEV GAMMAS DELAY TIME (SEC)									
	1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	5.00E-06
0	2.073E-00	4.983E-01	2.909E-01	6.415E-02	2.247E-02	1.426E-02	8.454E-03	5.247E-03	3.237E-03	2.026E-03
10	7.615E-01	4.572E-01	1.898E-01	7.117E-02	2.792E-02	1.737E-02	1.088E-02	6.792E-03	4.237E-03	2.687E-03
20	4.222E-01	2.564E-01	1.233E-01	4.893E-02	1.555E-02	9.359E-03	5.639E-03	3.592E-03	2.237E-03	1.387E-03
30	2.801E-01	1.665E-01	8.233E-02	3.055E-02	1.022E-02	6.154E-03	3.829E-03	2.392E-03	1.487E-03	9.27E-04
40	1.870E-01	1.091E-01	5.565E-02	1.931E-02	6.125E-03	3.846E-03	2.392E-03	1.487E-03	9.27E-04	5.77E-04
50	1.248E-01	7.306E-02	3.706E-02	1.255E-02	4.094E-03	2.588E-03	1.634E-03	1.026E-03	6.39E-04	3.97E-04
60	8.888E-02	5.159E-02	2.640E-02	8.495E-03	2.973E-03	1.898E-03	1.185E-03	7.51E-04	4.77E-04	2.97E-04
70	6.457E-02	3.706E-02	1.944E-02	6.125E-03	2.178E-03	1.387E-03	8.65E-04	5.41E-04	3.39E-04	2.17E-04
80	4.797E-02	2.640E-02	1.355E-02	4.457E-03	1.590E-03	1.000E-03	6.39E-04	4.00E-04	2.58E-04	1.63E-04
90	3.450E-02	1.944E-02	1.000E-02	3.255E-03	1.125E-03	7.00E-04	4.45E-04	2.80E-04	1.78E-04	1.12E-04
100	2.600E-02	1.488E-02	7.500E-03	2.450E-03	8.500E-04	5.00E-04	3.12E-04	1.94E-04	1.25E-04	7.87E-05
110	1.944E-02	1.091E-02	5.56E-03	1.875E-03	6.25E-04	3.75E-04	2.39E-04	1.48E-04	9.27E-05	5.77E-05
120	1.488E-02	8.23E-03	4.23E-03	1.387E-03	4.69E-04	2.89E-04	1.85E-04	1.18E-04	7.51E-05	4.77E-05
130	1.091E-02	6.12E-03	3.12E-03	1.000E-03	3.45E-04	2.17E-04	1.38E-04	8.65E-05	5.41E-05	3.39E-05
140	8.23E-03	4.69E-03	2.17E-03	7.50E-04	2.60E-04	1.63E-04	1.02E-04	6.39E-05	4.00E-05	2.58E-05
150	6.12E-03	3.45E-03	1.63E-03	5.41E-04	1.94E-04	1.25E-04	7.87E-05	4.97E-05	3.12E-05	1.94E-05
160	4.69E-03	2.60E-03	1.25E-03	4.00E-04	1.48E-04	9.27E-05	5.77E-05	3.63E-05	2.23E-05	1.38E-05
170	3.45E-03	1.94E-03	9.27E-04	3.12E-04	1.12E-04	7.00E-05	4.45E-05	2.80E-05	1.78E-05	1.12E-05
180	2.60E-03	1.48E-03	7.00E-04	8.50E-05	8.50E-05	5.00E-05	3.12E-05	1.94E-05	1.25E-05	7.87E-06
190	1.94E-03	1.09E-03	5.00E-04	6.25E-05	6.25E-05	3.75E-05	2.39E-05	1.48E-05	9.27E-06	5.77E-06
200	1.48E-03	8.23E-04	3.75E-04	4.69E-05	4.69E-05	2.89E-05	1.85E-05	1.18E-05	7.51E-06	4.77E-06
210	1.09E-03	6.12E-04	2.89E-04	3.45E-05	3.45E-05	2.17E-05	1.38E-05	8.65E-06	5.41E-06	3.39E-06
220	8.23E-04	4.69E-04	2.17E-04	2.60E-05	2.60E-05	1.63E-05	1.02E-05	6.39E-06	4.00E-06	2.58E-06
230	6.12E-04	3.45E-04	1.63E-04	1.94E-05	1.94E-05	1.25E-05	7.87E-06	4.97E-06	3.12E-06	1.94E-06
240	4.69E-04	2.60E-04	1.25E-04	1.48E-05	1.48E-05	9.27E-06	5.77E-06	3.63E-06	2.23E-06	1.38E-06
250	3.45E-04	1.94E-04	9.27E-05	1.12E-05	1.12E-05	7.00E-06	4.45E-06	2.80E-06	1.78E-06	1.12E-06
260	2.60E-04	1.48E-04	7.00E-05	8.50E-06	8.50E-06	5.00E-06	3.12E-06	1.94E-06	1.25E-06	7.87E-07
270	1.94E-04	1.09E-04	5.00E-05	6.25E-06	6.25E-06	3.75E-06	2.39E-06	1.48E-06	9.27E-07	5.77E-07
280	1.48E-04	8.23E-05	3.75E-05	4.69E-06	4.69E-06	2.89E-06	1.85E-06	1.18E-06	7.51E-07	4.77E-07
290	1.09E-04	6.12E-05	2.89E-05	3.45E-06	3.45E-06	2.17E-06	1.38E-06	8.65E-07	5.41E-07	3.39E-07
300	8.23E-05	4.69E-05	2.17E-05	2.60E-06	2.60E-06	1.63E-06	1.02E-06	6.39E-07	4.00E-07	2.58E-07
310	6.12E-05	3.45E-05	1.63E-05	1.94E-06	1.94E-06	1.25E-06	7.87E-07	4.97E-07	3.12E-07	1.94E-07
320	4.69E-05	2.60E-05	1.25E-05	1.48E-06	1.48E-06	9.27E-07	5.77E-07	3.63E-07	2.23E-07	1.38E-07
330	3.45E-05	1.94E-05	9.27E-06	1.12E-06	1.12E-06	7.00E-07	4.45E-07	2.80E-07	1.78E-07	1.12E-07
340	2.60E-05	1.48E-05	7.00E-06	8.50E-07	8.50E-07	5.00E-07	3.12E-07	1.94E-07	1.25E-07	7.87E-08
350	1.94E-05	1.09E-05	5.00E-06	6.25E-07	6.25E-07	3.75E-07	2.39E-07	1.48E-07	9.27E-08	5.77E-08
360	1.48E-05	8.23E-06	3.75E-06	4.69E-07	4.69E-07	2.89E-07	1.85E-07	1.18E-07	7.51E-08	4.77E-08
370	1.09E-05	6.12E-06	2.89E-06	3.45E-07	3.45E-07	2.17E-07	1.38E-07	8.65E-08	5.41E-08	3.39E-08
380	8.23E-06	4.69E-06	2.17E-06	2.60E-07	2.60E-07	1.63E-07	1.02E-07	6.39E-08	4.00E-08	2.58E-08
390	6.12E-06	3.45E-06	1.63E-06	1.94E-07	1.94E-07	1.25E-07	7.87E-08	4.97E-08	3.12E-08	1.94E-08
400	4.69E-06	2.60E-06	1.25E-06	1.48E-07	1.48E-07	9.27E-08	5.77E-08	3.63E-08	2.23E-08	1.38E-08
410	3.45E-06	1.94E-06	9.27E-07	1.12E-07	1.12E-07	7.00E-08	4.45E-08	2.80E-08	1.78E-08	1.12E-08
420	2.60E-06	1.48E-06	7.00E-07	8.50E-08	8.50E-08	5.00E-08	3.12E-08	1.94E-08	1.25E-08	7.87E-09
430	1.94E-06	1.09E-06	5.00E-07	6.25E-08	6.25E-08	3.75E-08	2.39E-08	1.48E-08	9.27E-09	5.77E-09
440	1.48E-06	8.23E-07	3.75E-07	4.69E-08	4.69E-08	2.89E-08	1.85E-08	1.18E-08	7.51E-09	4.77E-09
450	1.09E-06	6.12E-07	2.89E-07	3.45E-08	3.45E-08	2.17E-08	1.38E-08	8.65E-09	5.41E-09	3.39E-09
460	8.23E-07	4.69E-07	2.17E-07	2.60E-08	2.60E-08	1.63E-08	1.02E-08	6.39E-09	4.00E-09	2.58E-09
470	6.12E-07	3.45E-07	1.63E-07	1.94E-08	1.94E-08	1.25E-08	7.87E-09	4.97E-09	3.12E-09	1.94E-09
480	4.69E-07	2.60E-07	1.25E-07	1.48E-08	1.48E-08	9.27E-09	5.77E-09	3.63E-09	2.23E-09	1.38E-09
490	3.45E-07	1.94E-07	9.27E-08	1.12E-08	1.12E-08	7.00E-09	4.45E-09	2.80E-09	1.78E-09	1.12E-09
500	2.60E-07	1.48E-07	7.00E-08	8.50E-09	8.50E-09	5.00E-09	3.12E-09	1.94E-09	1.25E-09	7.87E-10
510	1.94E-07	1.09E-07	5.00E-08	6.25E-09	6.25E-09	3.75E-09	2.39E-09	1.48E-09	9.27E-10	5.77E-10
520	1.48E-07	8.23E-08	3.75E-08	4.69E-09	4.69E-09	2.89E-09	1.85E-09	1.18E-09	7.51E-10	4.77E-10
530	1.09E-07	6.12E-08	2.89E-08	3.45E-09	3.45E-09	2.17E-09	1.38E-09	8.65E-10	5.41E-10	3.39E-10
540	8.23E-08	4.69E-08	2.17E-08	2.60E-09	2.60E-09	1.63E-09	1.02E-09	6.39E-10	4.00E-10	2.58E-10
550	6.12E-08	3.45E-08	1.63E-08	1.94E-09	1.94E-09	1.25E-09	7.87E-10	4.97E-10	3.12E-10	1.94E-10
560	4.69E-08	2.60E-08	1.25E-08	1.48E-09	1.48E-09	9.27E-10	5.77E-10	3.63E-10	2.23E-10	1.38E-10
570	3.45E-08	1.94E-08	9.27E-09	1.12E-09	1.12E-09	7.00E-10	4.45E-10	2.80E-10	1.78E-10	1.12E-10
580	2.60E-08	1.48E-08	7.00E-09	8.50E-10	8.50E-10	5.00E-10	3.12E-10	1.94E-10	1.25E-10	7.87E-11
590	1.94E-08	1.09E-08	5.00E-09	6.25E-10	6.25E-10	3.75E-10	2.39E-10	1.48E-10	9.27E-11	5.77E-11
600	1.48E-08	8.23E-09	3.75E-09	4.69E-10	4.69E-10	2.89E-10	1.85E-10	1.18E-10	7.51E-11	4.77E-11
610	1.09E-08	6.12E-09	2.89E-09	3.45E-10	3.45E-10	2.17E-10	1.38E-10	8.65E-11	5.41E-11	3.39E-11
620	8.23E-09	4.69E-09	2.17E-09	2.60E-10	2.60E-10	1.63E-10	1.02E-10	6.39E-11	4.00E-11	2.58E-11
630	6.12E-09	3.45E-09	1.63E-09	1.94E-10	1.94E-10	1.25E-10	7.87E-11	4.97E-11	3.12E-11	1.94E-11
640	4.69E-09	2.60E-09	1.25E-09	1.48E-10	1.48E-10	9.27E-11	5.77E-11	3.63E-11	2.23E-11	1.38E-11
650	3.45E-09	1.94E-09	9.27E-10	1.12E-10	1.12E-10	7.00E-11	4.45E-11	2.80E-11	1.78E-11	1.12E-11
660	2.60E-09	1.48E-09	7.00E-10	8.50E-11	8.50E-11	5.00E-11	3.12E-11	1.94E-11	1.25E-11	7.87E-12
670	1.94E-09	1.09E-09	5.00E-10	6.25E-11	6.25E-11	3.75E-11	2.39E-11	1.48E-11	9.27E-12	5.77E-12
680	1.48E-09	8.23E-10	3.75E-10	4.69E-11	4.69E-11	2.89E-11	1.85E-11	1.18E-11	7.51E-12	4.77E-12
690	1.09E-09	6.12E-10	2.89E-10	3.45E-11	3.45E-11	2.17E-11	1.38E-11	8.65E-12	5.41E-12	3.39E-12
700	8.23E-10	4.69E-10	2.17E-10	2.60E-11	2.60E-11	1.63E-11	1.02E-11	6.39E-12	4.00E-12	2.58E-12
710	6.12E-10	3.45E-10	1.63E-10	1.94E-11	1.94E-11	1.25E-11	7.87E-12	4.97E-12	3.12E-12	1.94E-12
720	4.69E-10	2.60E-10	1.25E-10	1.48E-11	1.48E-11	9.27E-12	5.77E-12	3.63E-12	2.23E-12	1.38E-12
730	3.45E-10	1.94E-10	9.27E-11	1.12E-11	1.12E-11	7.00E-12	4.45E-12	2.80E-12	1.78E-12	1.12E-12
740	2.60E-10	1.48E-10	7.00E-11	8.50E-12	8.50E-12	5.00E-12	3.12E-12	1.94E-12	1.25E-12	7.87E-13
750	1.94E-10	1.09E-10	5.00E-11	6.25E-12	6.25E-12	3.75E-12	2.39E-12	1.48E-12	9.27E-13	5.77E-13
760	1.48E-10	8.23E-11	3.75E-11	4.69E-12	4.69E-12	2.89E-12	1.85E-12	1.18E-12	7.51E-13	4.77E-13
770	1.09E-10	6.12E-11	2.89E-11	3.45E-12	3.45E-12	2.17E-12	1.38E-12	8.65E-13	5.41E-13	3.39E-13
780	8.23E-11	4.69E-11	2.17E-11	2.60E-12	2.60E-12	1.63E-12	1.02E-12	6.39E-13	4.00E-13	2.58E-13
790	6.12E-11	3.45E-11	1.63E-11	1.94E-12	1.94E-12	1.25E-12	7.87E-13	4.97E-13	3.12E-13	1.94E-13
800	4.69E-11	2.60E-11	1.25E-11	1.48E-12	1.48E-12	9.27E-13	5.77E-13	3.63E-13	2.23E-13	1.38E-13
810	3.45E-11	1.94E-11	9.27E-12	1.12E-12	1.12E-12	7.00E-13	4.45E-13	2.80E-13	1.78E-13	1.12E-13
820	2.60E-11	1.48E-11	7.00E-12	8.50E-13						

TABLE IV. (Continued)

 $(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$ [illegible]

TABLE V. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 0.1 TO 0.5 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-08	1.00E-07	1.00E-07	1.00E-07	1.50E-07
0.0 - 10.0	7.455E	5.165E	2.845E	0.00	1.339E	0.00	1.071E	0.00	3.806E	0.01
10.0 - 20.0	9.360E	1.010E	1.361E	0.01	7.622E	0.01	1.300E	0.01	2.891E	0.01
20.0 - 40.0	1.815E	1.032E	1.922E	0.01	3.425E	0.01	6.213E	0.01	1.648E	0.01
40.0 - 60.0	5.227E	1.135E	2.757E	0.01	1.508E	0.01	7.684E	0.01	9.300E	0.02
60.0 - 80.0	2.179E	2.646E	1.778E	0.01	1.635E	0.02	4.424E	0.02	7.119E	0.02
80.0 - 100.0	4.534E	1.498E	5.955E	0.02	3.905E	0.02	1.891E	0.02	2.494E	0.02
100.0 - 125.0	2.334E	1.710E	3.363E	0.02	2.257E	0.02	1.172E	0.02	1.425E	0.02
125.0 - 150.0	1.276E	2.849E	1.555E	0.03	1.698E	0.03	1.640E	0.03	1.710E	0.03
150.0 - 175.0	6.475E	1.216E	7.330E	0.03	4.688E	0.03	3.669E	0.03	6.800E	0.03
175.0 - 200.0	2.840E	2.477E	2.741E	0.04	1.963E	0.04	3.271E	0.04	5.740E	0.04
200.0 - 250.0	4.095E	1.714E	4.210E	0.04	1.125E	0.04	2.266E	0.04	3.312E	0.04
250.0 - 300.0	0.600E	2.843E	1.606E	0.05	8.445E	0.05	2.844E	0.05	9.572E	0.05
300.0 - 350.0	2.081E	1.420E	2.240E	0.06	5.555E	0.06	8.370E	0.06	4.595E	0.06
350.0 - 400.0	1.155E	1.865E	1.722E	0.00	5.545E	0.07	9.546E	0.07	6.985E	0.07
400.0 - 450.0	2.061E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
450.0 - 500.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
500.0 - 600.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
600.0 - 800.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
800.0 - 1000.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
1000.0 - 1200.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
1200.0 - 1500.0	.0000E	.0000E	.0000E	0.00	.0000E	0.00	.0000E	0.00	.0000E	0.00
TOTAL ENERGY DEPOSITION/SEC	2.495E	5.796E	2.151E	0.06	1.520E	0.06	1.170E	0.06	9.472E	0.05

TABLE V. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		.10 TO 50 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	5.00E-06
		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	5.00E-06
0	0	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
10	10	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
20	20	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
40	40	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
60	60	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
80	80	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
100	100	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
125	125	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
150	150	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
175	175	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
200	200	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
250	250	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
300	300	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
350	350	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
400	400	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
450	450	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
500	500	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
600	600	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
800	800	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
1000	1000	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
1200	1200	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
1500	1500	4.10E-01	2.09E-01	4.13E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02	6.20E-02
TOTAL ENERGY DEPOSITION/SEC		7.519E 05	5.930E 05	4.306E 05	3.191E 05	2.393E 05	1.496E 05	1.00E 06	1.00E 06	1.00E 06	1.00E 06

TABLE V. (Continued)

 $(\text{keV m}^{-3} \text{sec}^{-1} / \text{keV of source Energy})$

.10 TO 50 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)		1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05	1.50E-05	2.00E-05	3.00E-05	5.00E-05	7.00E-05	1.00E-04	1.50E-04	2.00E-04	3.00E-04	5.00E-04	7.00E-04	1.00E-03	1.50E-03	2.00E-03	3.00E-03	5.00E-03	7.00E-03	1.00E-02	1.50E-02	2.00E-02	3.00E-02	5.00E-02	7.00E-02	1.00E-01	1.50E-01	2.00E-01	3.00E-01	5.00E-01	7.00E-01	1.00E-00	1.50E-00	2.00E-00	3.00E-00	5.00E-00	7.00E-00	1.00E+00	1.50E+00	2.00E+00	3.00E+00	5.00E+00	7.00E+00	1.00E+01	1.50E+01	2.00E+01	3.00E+01	5.00E+01	7.00E+01	1.00E+02	1.50E+02	2.00E+02	3.00E+02	5.00E+02	7.00E+02	1.00E+03	1.50E+03	2.00E+03	3.00E+03	5.00E+03	7.00E+03	1.00E+04	1.50E+04	2.00E+04	3.00E+04	5.00E+04	7.00E+04	1.00E+05	1.50E+05	2.00E+05	3.00E+05	5.00E+05	7.00E+05	1.00E+06	1.50E+06	2.00E+06	3.00E+06	5.00E+06	7.00E+06	1.00E+07	1.50E+07	2.00E+07	3.00E+07	5.00E+07	7.00E+07	1.00E+08	1.50E+08	2.00E+08	3.00E+08	5.00E+08	7.00E+08	1.00E+09	1.50E+09	2.00E+09	3.00E+09	5.00E+09	7.00E+09	1.00E+10	1.50E+10	2.00E+10	3.00E+10	5.00E+10	7.00E+10	1.00E+11	1.50E+11	2.00E+11	3.00E+11	5.00E+11	7.00E+11	1.00E+12	1.50E+12	2.00E+12	3.00E+12	5.00E+12	7.00E+12	1.00E+13	1.50E+13	2.00E+13	3.00E+13	5.00E+13	7.00E+13	1.00E+14	1.50E+14	2.00E+14	3.00E+14	5.00E+14	7.00E+14	1.00E+15	1.50E+15	2.00E+15	3.00E+15	5.00E+15	7.00E+15	1.00E+16	1.50E+16	2.00E+16	3.00E+16	5.00E+16	7.00E+16	1.00E+17	1.50E+17	2.00E+17	3.00E+17	5.00E+17	7.00E+17	1.00E+18	1.50E+18	2.00E+18	3.00E+18	5.00E+18	7.00E+18	1.00E+19	1.50E+19	2.00E+19	3.00E+19	5.00E+19	7.00E+19	1.00E+20	1.50E+20	2.00E+20	3.00E+20	5.00E+20	7.00E+20	1.00E+21	1.50E+21	2.00E+21	3.00E+21	5.00E+21	7.00E+21	1.00E+22	1.50E+22	2.00E+22	3.00E+22	5.00E+22	7.00E+22	1.00E+23	1.50E+23	2.00E+23	3.00E+23	5.00E+23	7.00E+23	1.00E+24	1.50E+24	2.00E+24	3.00E+24	5.00E+24	7.00E+24	1.00E+25	1.50E+25	2.00E+25	3.00E+25	5.00E+25	7.00E+25	1.00E+26	1.50E+26	2.00E+26	3.00E+26	5.00E+26	7.00E+26	1.00E+27	1.50E+27	2.00E+27	3.00E+27	5.00E+27	7.00E+27	1.00E+28	1.50E+28	2.00E+28	3.00E+28	5.00E+28	7.00E+28	1.00E+29	1.50E+29	2.00E+29	3.00E+29	5.00E+29	7.00E+29	1.00E+30	1.50E+30	2.00E+30	3.00E+30	5.00E+30	7.00E+30	1.00E+31	1.50E+31	2.00E+31	3.00E+31	5.00E+31	7.00E+31	1.00E+32	1.50E+32	2.00E+32	3.00E+32	5.00E+32	7.00E+32	1.00E+33	1.50E+33	2.00E+33	3.00E+33	5.00E+33	7.00E+33	1.00E+34	1.50E+34	2.00E+34	3.00E+34	5.00E+34	7.00E+34	1.00E+35	1.50E+35	2.00E+35	3.00E+35	5.00E+35	7.00E+35	1.00E+36	1.50E+36	2.00E+36	3.00E+36	5.00E+36	7.00E+36	1.00E+37	1.50E+37	2.00E+37	3.00E+37	5.00E+37	7.00E+37	1.00E+38	1.50E+38	2.00E+38	3.00E+38	5.00E+38	7.00E+38	1.00E+39	1.50E+39	2.00E+39	3.00E+39	5.00E+39	7.00E+39	1.00E+40	1.50E+40	2.00E+40	3.00E+40	5.00E+40	7.00E+40	1.00E+41	1.50E+41	2.00E+41	3.
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TABLE VI. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 0.5 to 1.0 MeV

(keV m⁻³ sec⁻¹ /keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.50E-07	2.00E-07	3.00E-07	5.00E-07
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL ENERGY DEPOSITION/SEC	3.780E 19	7.753E 06	2.443E 06	1.486E 06	1.098E 06	8.080E 05	5.567E 05	4.207E 05	3.255E 05	2.567E 05

TABLE VI. (Continued)

 $(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$ [illegible]

TABLE VI. (Continued)

(keV m ⁻³ sec ⁻¹ /keV of source energy)									
.50 TO 1.00 MEV GAMMAS									
DELAY TIME (SEC)									
RADIAL DISTANCE									
INTERVAL (METERS)									
1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05	7.00E-06	1.00E-05	7.00E-06	1.00E-05
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00	125.00
150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00
175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00
200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00
250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00
300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00
400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
450.00	450.00	450.00	450.00	450.00	450.00	450.00	450.00	450.00	450.00
500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00	500.00
600.00	600.00	600.00	600.00	600.00	600.00	600.00	600.00	600.00	600.00
800.00	800.00	800.00	800.00	800.00	800.00	800.00	800.00	800.00	800.00
1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00
1200.00	1200.00	1200.00	1200.00	1200.00	1200.00	1200.00	1200.00	1200.00	1200.00
TOTAL ENERGY DEPOSITION/SEC									
9.035E 00									

TABLE VII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 1.0 to 2.0 Mev

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.0E-20	2.0E-08	5.0E-08	7.0E-08	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07
0.0	7.085E-14	2.955E-01	3.558E-01	1.451E-01	1.475E-01	6.340E-02	6.340E-02	6.340E-02	6.340E-02	6.340E-02
10.0	9.133E-13	5.300E-00	1.373E-01	3.737E-01	3.737E-01	6.090E-02	6.090E-02	6.090E-02	6.090E-02	6.090E-02
20.0	2.663E-12	1.110E-01	1.041E-01	1.041E-01	1.041E-01	2.221E-02	2.221E-02	2.221E-02	2.221E-02	2.221E-02
40.0	1.765E-11	4.403E-01	5.625E-02	5.625E-02	5.625E-02	1.022E-02	1.022E-02	1.022E-02	1.022E-02	1.022E-02
60.0	1.173E-11	2.738E-01	3.234E-02	3.234E-02	3.234E-02	6.255E-03	6.255E-03	6.255E-03	6.255E-03	6.255E-03
80.0	7.225E-12	1.646E-01	1.799E-02	1.799E-02	1.799E-02	3.605E-03	3.605E-03	3.605E-03	3.605E-03	3.605E-03
100.0	4.917E-12	1.097E-01	1.292E-02	1.292E-02	1.292E-02	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03
125.0	3.092E-12	6.060E-02	6.405E-03	6.405E-03	6.405E-03	1.320E-03	1.320E-03	1.320E-03	1.320E-03	1.320E-03
150.0	1.115E-11	3.535E-02	3.255E-03	3.255E-03	3.255E-03	7.999E-04	7.999E-04	7.999E-04	7.999E-04	7.999E-04
175.0	6.126E-12	2.224E-02	2.056E-03	2.056E-03	2.056E-03	4.734E-04	4.734E-04	4.734E-04	4.734E-04	4.734E-04
200.0	3.710E-12	1.384E-02	1.245E-03	1.245E-03	1.245E-03	2.855E-04	2.855E-04	2.855E-04	2.855E-04	2.855E-04
250.0	1.884E-12	6.826E-03	6.355E-04	6.355E-04	6.355E-04	1.411E-04	1.411E-04	1.411E-04	1.411E-04	1.411E-04
300.0	1.088E-12	3.589E-03	3.988E-04	3.988E-04	3.988E-04	7.347E-05	7.347E-05	7.347E-05	7.347E-05	7.347E-05
350.0	6.410E-13	2.235E-03	2.555E-04	2.555E-04	2.555E-04	4.477E-05	4.477E-05	4.477E-05	4.477E-05	4.477E-05
400.0	3.819E-13	1.323E-03	1.573E-04	1.573E-04	1.573E-04	2.855E-05	2.855E-05	2.855E-05	2.855E-05	2.855E-05
450.0	2.264E-13	7.655E-04	9.733E-05	9.733E-05	9.733E-05	1.733E-05	1.733E-05	1.733E-05	1.733E-05	1.733E-05
500.0	1.310E-13	4.594E-04	5.765E-05	5.765E-05	5.765E-05	1.141E-05	1.141E-05	1.141E-05	1.141E-05	1.141E-05
550.0	8.109E-14	2.826E-04	3.589E-05	3.589E-05	3.589E-05	7.347E-06	7.347E-06	7.347E-06	7.347E-06	7.347E-06
600.0	4.887E-14	1.651E-04	2.173E-05	2.173E-05	2.173E-05	4.477E-06	4.477E-06	4.477E-06	4.477E-06	4.477E-06
650.0	2.851E-14	8.826E-05	1.414E-05	1.414E-05	1.414E-05	2.855E-06	2.855E-06	2.855E-06	2.855E-06	2.855E-06
700.0	1.651E-14	5.151E-05	8.266E-06	8.266E-06	8.266E-06	1.651E-06	1.651E-06	1.651E-06	1.651E-06	1.651E-06
750.0	9.871E-15	3.092E-05	4.917E-06	4.917E-06	4.917E-06	9.871E-07	9.871E-07	9.871E-07	9.871E-07	9.871E-07
800.0	5.917E-15	1.884E-05	2.917E-06	2.917E-06	2.917E-06	5.917E-07	5.917E-07	5.917E-07	5.917E-07	5.917E-07
850.0	3.410E-15	1.088E-05	1.651E-06	1.651E-06	1.651E-06	3.410E-07	3.410E-07	3.410E-07	3.410E-07	3.410E-07
900.0	2.010E-15	6.410E-06	9.871E-07	9.871E-07	9.871E-07	2.010E-07	2.010E-07	2.010E-07	2.010E-07	2.010E-07
950.0	1.201E-15	3.710E-06	5.917E-07	5.917E-07	5.917E-07	1.201E-07	1.201E-07	1.201E-07	1.201E-07	1.201E-07
1000.0	7.085E-16	2.085E-06	3.092E-07	3.092E-07	3.092E-07	7.085E-08	7.085E-08	7.085E-08	7.085E-08	7.085E-08
1200.0	4.594E-16	1.310E-06	1.987E-07	1.987E-07	1.987E-07	4.594E-08	4.594E-08	4.594E-08	4.594E-08	4.594E-08
TOTAL ENERGY DEPOSITION/SEC	4.594E-19	8.826E-06	2.464E-06	1.369E-06	1.369E-06	1.031E-06	1.031E-06	1.031E-06	1.031E-06	1.031E-06

TABLE VII. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		1.00 TO 2.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	5.00E-06
		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	5.00E-06
0.0	0.0	3.694E-02	2.792E-03	0.00E-00	0.00E-00	1.581E-03	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
10.0	10.0	1.634E-02	1.225E-03	0.794E-03	0.00E-00	2.026E-04	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
20.0	20.0	1.470E-02	1.005E-03	0.663E-03	0.00E-00	1.116E-04	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
40.0	40.0	1.990E-02	5.005E-03	3.67E-03	0.00E-00	1.617E-04	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
60.0	60.0	5.680E-02	3.334E-03	2.502E-03	0.00E-00	1.277E-04	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
80.0	80.0	5.090E-02	3.334E-03	2.502E-03	0.00E-00	1.183E-04	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
100.0	100.0	4.144E-02	3.334E-03	2.502E-03	0.00E-00	8.725E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
125.0	125.0	3.781E-02	3.334E-03	2.502E-03	0.00E-00	7.805E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
150.0	150.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
175.0	175.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
200.0	200.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
250.0	250.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
300.0	300.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
350.0	350.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
400.0	400.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
450.0	450.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
500.0	500.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
600.0	600.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
800.0	800.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
1000.0	1000.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
1200.0	1200.0	3.453E-02	3.334E-03	2.502E-03	0.00E-00	6.435E-05	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
TOTAL ENERGY DEPOSITION/SEC		4.759E 05	3.134E 05	1.820E 05	1.162E 05	7.939E 04	5.091E 04	3.907E 04	3.640E 04	3.640E 04	3.640E 04

TABLE VII. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		1.00 TO 2.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05	3.00E-06	5.00E-06	7.00E-06	1.00E-05
		1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05	3.00E-06	5.00E-06	7.00E-06	1.00E-05
0.0	0.0	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06	0.00E-06
10.0	10.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
20.0	20.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
40.0	40.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
60.0	60.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
80.0	80.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
100.0	100.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
125.0	125.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
150.0	150.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
175.0	175.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
200.0	200.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
250.0	250.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
300.0	300.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
350.0	350.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
400.0	400.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
450.0	450.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
500.0	500.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
600.0	600.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
800.0	800.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
1000.0	1000.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
1200.0	1200.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
1500.0	1500.0	2.41E-06	7.79E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
TOTAL ENERGY DEPOSITION/SEC		3.098E-04	1.271E-04	1.526E-03	3.467E-01	1.472E-02					

TABLE VIII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 2.0 to 3.0 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-08	1.00E-07	1.00E-07	1.00E-07	5.710E-05
0	5.560E-00	3.799E-01	1.190E-01	1.188E-01	3.502E-02	0.00E-00	0.00E-00	2.651E-02	2.651E-02	2.651E-02
10	7.950E-00	3.972E-00	1.485E-02	1.485E-02	6.955E-02	0.051E-00	0.051E-00	2.799E-02	2.799E-02	2.799E-02
20	1.810E-00	1.335E-00	6.995E-02	6.995E-02	2.643E-02	1.083E-00	1.083E-00	1.083E-00	1.083E-00	1.083E-00
40	3.164E-00	3.611E-01	4.715E-02	4.715E-02	1.530E-02	0.420E-00	0.420E-00	0.420E-00	0.420E-00	0.420E-00
60	1.657E-00	1.335E-01	2.844E-02	2.844E-02	8.654E-03	0.274E-00	0.274E-00	0.274E-00	0.274E-00	0.274E-00
80	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
100	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
125	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
150	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
175	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
200	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
250	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
300	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
350	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
400	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
450	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
500	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
600	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
800	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
1000	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
1200	3.366E-00	3.366E-01	1.684E-02	1.684E-02	5.400E-03	0.165E-00	0.165E-00	0.165E-00	0.165E-00	0.165E-00
TOTAL ENERGY DEPOSITION/SEC	5.172E-19	9.387E-06	2.196E-06	1.296E-06	8.422E-05	5.710E-05	5.710E-05	5.710E-05	5.710E-05	5.710E-05

$(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$ [illegible]

TABLE VIII. (Continued)

 $(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$

2.00 TO 3.00 MEV GAMMAS													
		DELAY TIME (SEC)											
		1.50E-06		2.00E-06		3.00E-06		5.00E-06		7.00E-06		1.00E-05	
RADIAL DISTANCE		INTERVAL (METERS)											
0	0	7.540E-07	7.540E-07	4.068E-06	4.068E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10	10	5.760E-07	5.760E-07	3.245E-06	3.245E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
20	20	6.151E-07	6.151E-07	3.779E-06	3.779E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
40	40	1.102E-06	1.102E-06	5.064E-06	5.064E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
60	60	1.189E-06	1.189E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
80	80	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	100	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
120	120	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
140	140	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
160	160	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
180	180	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
200	200	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
220	220	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
240	240	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
260	260	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
280	280	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
300	300	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
320	320	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
340	340	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
360	360	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
380	380	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
400	400	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
420	420	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
440	440	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
460	460	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
480	480	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
500	500	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
520	520	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
540	540	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
560	560	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
580	580	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
600	600	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
620	620	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
640	640	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
660	660	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
680	680	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
700	700	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
720	720	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
740	740	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
760	760	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
780	780	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
800	800	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
820	820	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
840	840	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
860	860	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
880	880	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
900	900	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
920	920	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
940	940	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
960	960	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
980	980	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1000	1000	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1020	1020	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1040	1040	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1060	1060	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1080	1080	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1100	1100	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1120	1120	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1140	1140	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1160	1160	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1180	1180	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1200	1200	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1220	1220	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1240	1240	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1260	1260	1.205E-06	1.205E-06	5.440E-06	5.440E-06	7.159E-06	7.159E-06	0.00					

TABLE IX. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 3.0 TO 4.0 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	00E-00	1.00E-20	2.00E-20	5.00E-08	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.00E-07	1.50E-07
0	5.375E	14	1.971E	00	000E	00	7.210E	304E	340E	353E
10	6.790E	13	3.726E	00	365E	02	2.330E	305E	345E	353E
20	1.744E	11	8.870E	01	6.583E	02	2.543E	305E	345E	353E
40	5.620E	11	4.351E	01	2.066E	02	1.915E	305E	345E	353E
60	2.764E	12	2.744E	01	1.066E	02	8.972E	305E	345E	353E
80	1.507E	12	1.827E	01	6.333E	02	5.675E	305E	345E	353E
100	8.285E	11	7.770E	02	1.190E	03	3.051E	305E	345E	353E
125	3.751E	11	6.150E	02	1.570E	03	2.571E	305E	345E	353E
150	2.697E	11	5.825E	02	7.470E	03	2.569E	305E	345E	353E
175	1.407E	11	3.839E	02	7.035E	03	2.569E	305E	345E	353E
200	2.745E	11	1.089E	02	4.236E	03	2.569E	305E	345E	353E
250	4.732E	10	1.750E	03	1.475E	04	2.569E	305E	345E	353E
300	1.673E	10	2.098E	03	1.220E	04	2.569E	305E	345E	353E
350	2.281E	10	1.974E	03	9.920E	04	2.569E	305E	345E	353E
400	1.055E	09	1.600E	04	4.461E	04	2.569E	305E	345E	353E
450	2.165E	08	1.881E	04	2.118E	05	2.569E	305E	345E	353E
500	1.871E	07	1.920E	05	1.123E	05	2.569E	305E	345E	353E
600	1.439E	07	1.731E	05	9.255E	06	2.569E	305E	345E	353E
800	1.000E	07	1.329E	06	2.056E	06	1.161E	7.610E	4.850E	5.06E
1000	1.200E	19	9.329E	06	2.056E	06	1.161E	7.610E	4.850E	5.06E
1200	1.390E	19	5.558E	19	2.056E	06	1.161E	7.610E	4.850E	5.06E
TOTAL ENERGY DEPOSITION/SEC	5.558E	19	9.329E	06	2.056E	06	1.161E	7.610E	4.850E	5.06E

TABLE IX. (Continued)

 $(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$ [illegible]

TABLE IX. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	3.00 TO 4.00 MEV GAMMAS DELAY TIME (SEC)					
	1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05
10.00	1.285E-04	1.200E-06	0.00E-00	0.00E-00	0.00E-00	0.00E-00
20.00	1.231E-05	1.599E-05	1.599E-05	2.04E-07	0.00E-00	0.00E-00
40.00	1.106E-04	1.398E-05	4.825E-06	8.055E-06	4.655E-08	0.00E-00
60.00	1.440E-05	3.846E-05	5.385E-06	3.320E-06	1.756E-08	0.00E-00
80.00	8.155E-05	3.771E-05	3.914E-06	3.746E-06	1.090E-07	0.00E-00
100.00	5.973E-05	3.693E-05	3.716E-06	3.505E-06	7.505E-08	0.00E-00
125.00	4.504E-05	3.622E-05	3.859E-06	4.256E-06	6.00E-00	0.00E-00
150.00	3.337E-05	3.919E-05	3.968E-06	1.905E-06	2.256E-07	0.00E-00
175.00	4.683E-05	3.622E-05	3.717E-06	1.655E-06	1.870E-07	0.00E-00
200.00	3.963E-05	3.703E-05	3.305E-06	8.557E-07	1.00E-00	0.00E-00
250.00	1.022E-05	1.657E-06	1.870E-07	1.161E-06	2.991E-09	0.00E-00
300.00	1.105E-06	3.688E-07	2.757E-07	6.855E-08	1.715E-08	0.00E-00
350.00	1.685E-06	3.081E-07	3.686E-08	1.407E-06	1.616E-10	0.00E-00
400.00	1.635E-07	3.512E-07	1.410E-08	1.599E-08	9.435E-12	0.00E-00
450.00	2.635E-07	1.064E-07	1.490E-09	5.384E-08	4.030E-10	0.00E-00
500.00	1.130E-08	1.516E-08	6.490E-09	1.428E-10	9.00E-12	0.00E-00
600.00	1.130E-08	7.205E-03	1.123E-03	2.788E-01	4.851E-01	0.00E-00
800.00	1.130E-08	1.618E-04	1.618E-04	2.788E-01	4.851E-01	0.00E-00
1000.00	1.130E-08	1.618E-04	1.618E-04	2.788E-01	4.851E-01	0.00E-00
1200.00	1.130E-08	1.618E-04	1.618E-04	2.788E-01	4.851E-01	0.00E-00
TOTAL ENERGY DEPOSITION/SEC	1.618E-04	7.205E-03	1.123E-03	2.788E-01	4.851E-01	0.00E-00

TABLE X.
TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 4.0 to 5.0 Mev

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
RADIAL DISTANCE INTERVAL (METERS)		DELAY TIME (SEC)									
		0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.50E-07	3.00E-07	5.00E-07	7.00E-07
0.0	0	4.644E	1.872E	01	2.118E-02	9.430E-03	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
10.0	10	5.810E	3.178E	00	6.215E-02	1.071E-02	1.380E-00	1.135E-00	5.16E-00	0.00E-00	0.00E-00
20.0	20	1.532E	3.972E	01	2.595E-02	1.690E-02	4.398E-00	3.33E-00	1.135E-00	0.00E-00	0.00E-00
40.0	40	1.532E	3.972E	01	1.379E-02	8.280E-03	6.975E-00	5.37E-00	2.85E-00	0.00E-00	0.00E-00
60.0	60	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
80.0	80	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
100.0	100	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
125.0	125	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
150.0	150	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
175.0	175	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
200.0	200	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
250.0	250	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
300.0	300	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
350.0	350	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
400.0	400	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
450.0	450	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
500.0	500	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
600.0	600	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
800.0	800	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
1000.0	1000	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
1200.0	1200	1.532E	3.972E	01	1.221E-02	4.414E-03	2.22E-00	2.22E-00	2.22E-00	0.00E-00	0.00E-00
TOTAL ENERGY DEPOSITION/SEC		5.892E	9.213E	06	1.867E	9.290E	6.624E	3.995E	0.00E-00	0.00E-00	0.00E-00

TABLE X. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		4.00 TO 5.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
10.00	10.00	1.022E-03	1.000E-03	8.165E-04	4.000E-04	0.000E-04	0.000E-04	0.000E-04	0.000E-04	0.000E-04	0.000E-04
20.00	20.00	1.341E-03	1.293E-03	1.174E-03	8.740E-04	6.376E-04	4.769E-04	3.580E-04	2.769E-04	2.029E-04	1.558E-04
40.00	40.00	1.775E-03	1.633E-03	1.400E-03	1.040E-03	7.555E-04	5.555E-04	4.193E-04	3.193E-04	2.293E-04	1.693E-04
60.00	60.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
80.00	80.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
100.00	100.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
125.00	125.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
150.00	150.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
175.00	175.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
200.00	200.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
250.00	250.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
300.00	300.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
350.00	350.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
400.00	400.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
450.00	450.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
500.00	500.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
600.00	600.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
800.00	800.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
1000.00	1000.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
1200.00	1200.00	1.971E-03	1.771E-03	1.500E-03	1.090E-03	8.345E-04	6.155E-04	4.555E-04	3.455E-04	2.555E-04	1.855E-04
TOTAL ENERGY DEPOSITION/SEC		2.586E 05	1.732E 05	9.342E 04	5.611E 04	3.580E 04	2.168E 04	1.475E 04	1.037E 04	6.534E 03	4.275E 03

TABLE X. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	4.00 TO 5.00 MEV GAMMAS DELAY TIME (SEC)									
	1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05	1.50E-05	2.00E-05	3.00E-05	4.00E-05
10.00	9.595E-05	9.010E-05	8.346E-05	7.722E-05	7.145E-05	6.635E-05	6.180E-05	5.770E-05	5.400E-05	5.070E-05
20.00	1.100E-04	1.040E-04	9.720E-05	9.080E-05	8.480E-05	7.920E-05	7.400E-05	6.920E-05	6.480E-05	6.080E-05
40.00	1.534E-04	1.420E-04	1.300E-04	1.180E-04	1.060E-04	9.500E-05	8.400E-05	7.400E-05	6.400E-05	5.500E-05
60.00	1.744E-04	1.620E-04	1.480E-04	1.340E-04	1.200E-04	1.060E-04	9.400E-05	8.200E-05	7.100E-05	6.100E-05
80.00	1.944E-04	1.800E-04	1.640E-04	1.480E-04	1.320E-04	1.160E-04	1.000E-04	8.800E-05	7.600E-05	6.500E-05
100.00	2.144E-04	1.980E-04	1.800E-04	1.620E-04	1.440E-04	1.260E-04	1.080E-04	9.400E-05	8.000E-05	6.800E-05
125.00	2.344E-04	2.160E-04	1.960E-04	1.760E-04	1.560E-04	1.360E-04	1.160E-04	1.000E-04	8.600E-05	7.400E-05
150.00	2.544E-04	2.340E-04	2.120E-04	1.880E-04	1.640E-04	1.400E-04	1.160E-04	1.000E-04	8.600E-05	7.400E-05
175.00	2.744E-04	2.520E-04	2.280E-04	2.020E-04	1.760E-04	1.500E-04	1.240E-04	1.080E-04	9.400E-05	8.000E-05
200.00	2.944E-04	2.700E-04	2.440E-04	2.160E-04	1.880E-04	1.600E-04	1.320E-04	1.120E-04	9.600E-05	8.200E-05
250.00	3.344E-04	3.080E-04	2.780E-04	2.460E-04	2.120E-04	1.780E-04	1.480E-04	1.240E-04	1.040E-04	8.800E-05
300.00	3.744E-04	3.460E-04	3.120E-04	2.760E-04	2.380E-04	2.000E-04	1.640E-04	1.360E-04	1.120E-04	9.400E-05
350.00	4.144E-04	3.840E-04	3.480E-04	3.080E-04	2.660E-04	2.240E-04	1.840E-04	1.520E-04	1.240E-04	1.000E-04
400.00	4.544E-04	4.220E-04	3.840E-04	3.400E-04	2.940E-04	2.480E-04	2.040E-04	1.680E-04	1.360E-04	1.120E-04
450.00	4.944E-04	4.600E-04	4.180E-04	3.700E-04	3.200E-04	2.680E-04	2.200E-04	1.760E-04	1.440E-04	1.160E-04
500.00	5.344E-04	4.980E-04	4.540E-04	4.040E-04	3.520E-04	2.960E-04	2.440E-04	1.960E-04	1.560E-04	1.240E-04
600.00	6.144E-04	5.760E-04	5.280E-04	4.720E-04	4.140E-04	3.540E-04	2.920E-04	2.320E-04	1.840E-04	1.440E-04
800.00	7.344E-04	6.840E-04	6.320E-04	5.680E-04	5.000E-04	4.320E-04	3.600E-04	2.920E-04	2.320E-04	1.840E-04
1000.00	8.544E-04	7.920E-04	7.360E-04	6.640E-04	5.880E-04	5.120E-04	4.360E-04	3.600E-04	2.920E-04	2.320E-04
1200.00	9.744E-04	9.000E-04	8.320E-04	7.520E-04	6.680E-04	5.840E-04	5.000E-04	4.240E-04	3.480E-04	2.840E-04
TOTAL ENERGY DEPOSITION/SEC	1.351E 04	6.088E 03	9.900E 02	3.726E 01	4.512E -01					

TABLE XI.
TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 5.0 to 6.0 Mev

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)											
	00E-00	1.00E-20	2.00E-08	5.00E-08	2.00E-08	5.00E-08	7.00E-08	1.00E-08	7.00E-08	1.00E-08	1.00E-07	1.50E-07
0	4.585E	14	243E	01	3.208E	02	1.323E	02	1.705E	00	5.210E	03
10	6.453E	13	2027E	00	1.903E	02	1.061E	00	7.705E	00	7.705E	03
20	1.532E	11	7112E	01	1.712E	02	5.065E	00	1.837E	00	2.055E	03
40	1.160E	12	3303E	01	8303E	03	3.065E	00	3.882E	00	3.882E	03
60	1.418E	11	7908E	02	7.830E	03	3.018E	00	4.092E	00	4.092E	03
80	1.770E	11	4055E	02	6.265E	03	2.548E	00	5.563E	00	5.563E	03
100	5.339E	11	9745E	02	4.262E	03	1.824E	00	1.092E	00	1.111E	03
125	4.569E	11	3713E	02	5.893E	03	1.474E	00	2.270E	00	2.270E	03
150	4.010E	11	3550E	02	1.443E	03	1.356E	00	2.553E	00	2.553E	03
175	3.539E	11	3507E	02	1.825E	04	7.610E	00	3.078E	00	3.078E	03
200	3.160E	10	5903E	03	1.590E	04	5.910E	00	4.078E	00	4.078E	03
250	4.515E	10	3270E	03	7.590E	04	4.612E	00	5.688E	00	5.688E	03
300	1.789E	10	5637E	03	4.660E	04	3.668E	00	1.519E	00	1.519E	03
350	1.305E	09	9603E	04	3.099E	05	2.745E	00	3.000E	00	3.000E	03
400	1.778E	09	0603E	04	2.600E	05	5.675E	00	5.000E	00	5.000E	03
450	1.307E	09	1536E	05	2.508E	05	1.923E	00	1.338E	00	1.338E	03
500	1.054E	08	1.556E	05	2.508E	05	1.923E	00	1.338E	00	1.338E	03
600	1.165E	08	8.826E	06	1.729E	06	8.220E	05	5.530E	05	5.530E	03
800	1.165E	19	6.161E	19	1.729E	06	8.220E	05	5.530E	05	5.530E	03
1000	1.165E	19	6.161E	19	1.729E	06	8.220E	05	5.530E	05	5.530E	03
1200	1.165E	19	6.161E	19	1.729E	06	8.220E	05	5.530E	05	5.530E	03
TOTAL ENERGY DEPOSITION/SEC	6.161E	19	8.826E	06	1.729E	06	8.220E	05	5.530E	05	5.530E	03

TABLE XI. (Continued)

		$(\text{keV m}^{-3} \text{sec}^{-1} / \text{keV of source energy})$											
		5.00 TO 6.00 MEV GAMMAS						DELAY TIME (SEC)					
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07		2.00E-07		3.00E-07		3.00E-07		5.00E-07		7.00E-07	
		0	10	0	10	0	10	0	10	0	10	0	10
0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0	0	0	0	0
300	0	0	0	0	0	0	0	0	0	0	0	0	0
350	0	0	0	0	0	0	0	0	0	0	0	0	0
400	0	0	0	0	0	0	0	0	0	0	0	0	0
450	0	0	0	0	0	0	0	0	0	0	0	0	0
500	0	0	0	0	0	0	0	0	0	0	0	0	0
600	0	0	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ENERGY DEPOSITION/SEC		2.258E 05	1.543E 05	7.987E 04	4.748E 04	3.063E 04	1.883E 04	1.00E-06	1.50E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06

TABLE XI. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	5.00 TO 6.00 MEV GAMMAS DELAY TIME (SEC)					
	1.50E-06	2.00E-06	3.00E-06	5.00E-06	7.00E-06	1.00E-05
0	0	0	0	0	0	0
10	8.550E-05	8.550E-05	8.550E-05	8.550E-05	8.550E-05	8.550E-05
20	8.327E-05	8.327E-05	8.327E-05	8.327E-05	8.327E-05	8.327E-05
40	8.690E-05	8.690E-05	8.690E-05	8.690E-05	8.690E-05	8.690E-05
60	8.304E-05	8.304E-05	8.304E-05	8.304E-05	8.304E-05	8.304E-05
80	8.425E-05	8.425E-05	8.425E-05	8.425E-05	8.425E-05	8.425E-05
100	8.576E-05	8.576E-05	8.576E-05	8.576E-05	8.576E-05	8.576E-05
125	8.521E-05	8.521E-05	8.521E-05	8.521E-05	8.521E-05	8.521E-05
150	8.869E-05	8.869E-05	8.869E-05	8.869E-05	8.869E-05	8.869E-05
175	8.457E-05	8.457E-05	8.457E-05	8.457E-05	8.457E-05	8.457E-05
200	8.681E-05	8.681E-05	8.681E-05	8.681E-05	8.681E-05	8.681E-05
250	8.173E-05	8.173E-05	8.173E-05	8.173E-05	8.173E-05	8.173E-05
300	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05
350	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05
400	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05
450	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05
500	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05
600	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05
800	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05
1000	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05
1200	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05	8.235E-05
1500	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05	8.190E-05
TOTAL ENERGY DEPOSITION/SEC	1.147E 04	5.238E 03	8.439E 02	3.174E 01	1.280E 00	

TABLE XII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 6.0 to 7.0 Mev

(keV m⁻³ sec⁻¹/keV of source energy)

RADI- AL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)										TOTAL ENERGY DEPOSITION/SEC
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	
0.0	4.445E	14	9.925E 00	1.718E-01	1.361E-02	2.002E-02	2.002E-02	2.002E-02	2.002E-02	2.002E-02	5.645E-03
10.0	6.144E	13	1.786E 00	6.140E-02	2.222E-02	1.098E-02	1.098E-02	1.098E-02	1.098E-02	1.098E-02	4.858E-03
20.0	1.490E	12	3.324E-01	1.262E-02	1.140E-02	7.070E-03	7.070E-03	7.070E-03	7.070E-03	7.070E-03	3.908E-03
40.0	2.666E	11	1.978E-01	8.655E-03	8.322E-03	4.208E-03	4.208E-03	4.208E-03	4.208E-03	4.208E-03	1.898E-03
60.0	1.424E	11	9.600E-02	5.825E-03	5.190E-03	3.129E-03	3.129E-03	3.129E-03	3.129E-03	3.129E-03	1.108E-03
80.0	9.823E	11	6.000E-02	3.316E-03	2.827E-03	1.855E-03	1.855E-03	1.855E-03	1.855E-03	1.855E-03	5.753E-04
100.0	2.635E	11	3.918E-02	2.311E-03	1.840E-03	1.189E-03	1.189E-03	1.189E-03	1.189E-03	1.189E-03	3.753E-04
125.0	5.560E	10	2.365E-02	1.832E-03	1.070E-03	6.250E-04	6.250E-04	6.250E-04	6.250E-04	6.250E-04	2.180E-04
150.0	3.310E	10	1.555E-02	1.100E-03	6.775E-04	3.846E-04	3.846E-04	3.846E-04	3.846E-04	3.846E-04	1.544E-04
200.0	2.821E	10	9.870E-03	7.237E-04	4.300E-04	2.807E-04	2.807E-04	2.807E-04	2.807E-04	2.807E-04	1.144E-04
250.0	1.418E	9	4.548E-03	4.270E-04	2.804E-04	1.743E-04	1.743E-04	1.743E-04	1.743E-04	1.743E-04	6.953E-05
300.0	1.278E	9	3.452E-03	3.270E-04	2.163E-04	1.370E-04	1.370E-04	1.370E-04	1.370E-04	1.370E-04	5.333E-05
400.0	4.237E	8	1.428E-03	2.665E-05	1.464E-05	9.340E-05	9.340E-05	9.340E-05	9.340E-05	9.340E-05	2.133E-05
500.0	1.515E	8	1.540E-04	3.780E-05	2.387E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	3.398E-06
600.0	5.142E	8	1.732E-05	1.800E-05	8.335E-06	6.725E-06	6.725E-06	6.725E-06	6.725E-06	6.725E-06	1.300E-06
800.0	1.152E	8	4.732E-05	1.800E-05	2.387E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	3.398E-06
1000.0	1.152E	8	4.732E-05	1.800E-05	2.387E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	3.398E-06
1200.0	1.152E	8	4.732E-05	1.800E-05	2.387E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	1.520E-05	3.398E-06
TOTAL ENERGY DEPOSITION/SEC	6.273E	19	8.844E 06	1.542E 06	7.707E 05	5.024E 05	5.024E 05	5.024E 05	5.024E 05	5.024E 05	3.063E 05

TABLE XII. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		6.00 TO 7.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350	350	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	450	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600	600	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800	800	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200	1200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500	1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL ENERGY DEPOSITION/SEC		1.987E 05	1.333E 05	7.221E 04	4.219E 04	2.781E 04	1.716E 04	1.00E-06	1.50E-06	1.00E-06	1.00E-06

TABLE XII. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		6.00 TO 7.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-06		2.00E-06		3.00E-06		5.00E-06		7.00E-06	
		1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06
0	0	000E-06	000E-06	000E-06	000E-06	000E-06	000E-06	000E-06	000E-06	000E-06	000E-06
10	10	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
20	20	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
40	40	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
60	60	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
80	80	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
100	100	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
125	125	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
150	150	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
175	175	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
200	200	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
250	250	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
300	300	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
350	350	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
400	400	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
450	450	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
500	500	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
600	600	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
800	800	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
1000	1000	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
1200	1200	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04	1.587E-04
TOTAL ENERGY DEPOSITION/SEC		1.039E-04	4.823E-03	8.332E-02	3.794E-01	7.965E-01	7.965E-01	7.965E-01	7.965E-01	7.965E-01	7.965E-01

TABLE XIII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 7.0 to 8.0 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	7.00E-08	1.00E-07	1.00E-07	1.00E-07	1.50E-07
0	4.325E	14	8.870E	6.410E	5.235E	5.235E	000E	000E	000E	1.309E
10	4.460E	13	8.974E	6.462E	5.470E	5.470E	415E	415E	415E	1.436E
20	4.536E	13	9.159E	6.570E	5.630E	5.630E	872E	872E	872E	1.660E
40	4.717E	12	9.593E	6.953E	5.918E	5.918E	277E	277E	277E	1.701E
60	4.825E	12	1.029E	7.353E	6.126E	6.126E	884E	884E	884E	1.723E
80	4.954E	11	1.080E	7.884E	6.531E	6.531E	1.42E	1.42E	1.42E	1.745E
100	5.086E	11	1.149E	8.634E	7.166E	7.166E	425E	425E	425E	1.805E
125	5.245E	11	1.207E	9.055E	7.828E	7.828E	710E	710E	710E	1.880E
150	5.381E	11	1.273E	9.688E	8.463E	8.463E	1.07E	1.07E	1.07E	1.954E
175	5.511E	11	1.351E	1.036E	9.040E	9.040E	1.59E	1.59E	1.59E	2.044E
200	5.660E	10	1.451E	1.104E	9.870E	9.870E	2.22E	2.22E	2.22E	2.148E
250	5.922E	10	1.590E	1.306E	1.040E	1.040E	3.33E	3.33E	3.33E	2.354E
300	6.244E	10	1.750E	1.430E	1.228E	1.228E	4.93E	4.93E	4.93E	2.611E
350	6.602E	10	1.908E	1.506E	1.389E	1.389E	7.18E	7.18E	7.18E	2.854E
400	6.932E	9	2.084E	1.566E	1.580E	1.580E	1.03E	1.03E	1.03E	3.080E
450	7.240E	9	2.280E	1.643E	1.805E	1.805E	1.46E	1.46E	1.46E	3.357E
500	7.502E	9	2.490E	1.733E	2.058E	2.058E	2.05E	2.05E	2.05E	3.687E
600	8.108E	8	3.368E	1.974E	2.800E	2.800E	3.71E	3.71E	3.71E	4.185E
800	1.091E	8	6.070E	1.774E	1.058E	1.058E	5.35E	5.35E	5.35E	4.810E
1000	1.858E	8	8.791E	1.389E	6.542E	6.542E	7.53E	7.53E	7.53E	5.185E
1200	6.366E	19	8.791E	1.389E	6.542E	6.542E	7.53E	7.53E	7.53E	5.185E
TOTAL ENERGY DEPOSITION/SEC	6.366E	19	8.791E	1.389E	6.542E	6.542E	4.599E	4.599E	4.599E	2.832E

TABLE XIII. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE		7.00 TO 8.00 MEV GAMMAS		7.00E-07		5.00E-07		7.00E-07		7.00E-07		1.00E-06		1.50E-06	
INTERVAL (METERS)		DELAY TIME (SEC)		3.00E-07		5.00E-07		7.00E-07		1.00E-07		1.00E-06		1.50E-06	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ENERGY DEPOSITION/SEC				1.754E 05		1.165E 05		6.423E 04		3.805E 04		2.466E 04		1.516E 04	

TABLE XIII. (Continued)

 $(\text{keV m}^{-3} \text{ sec}^{-1} / \text{keV of source energy})$ [illegible]

TABLE XIV. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 8.0 TO 9.0 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)									
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07
0	3.924E	1.411E	01	2.879E-02	000E	00	8.245E-04	000E	000E	000E
10	4.999E	1.095E	00	2.646E-03	234E	00	2.624E-03	209E	209E	209E
20	1.356E	3.955E-01	00	8.465E-03	1.650E-03	00	3.624E-03	1.912E-03	1.912E-03	1.912E-03
40	1.065E	2.943E-01	01	8.040E-03	4.297E-03	00	3.461E-03	1.778E-03	1.778E-03	1.778E-03
60	2.200E	1.343E-01	00	5.080E-03	3.089E-03	00	8.153E-03	1.875E-03	1.875E-03	1.875E-03
80	1.525E	9.555E-02	02	4.600E-03	2.014E-03	00	1.534E-03	1.240E-03	1.240E-03	1.240E-03
100	5.684E	3.844E-02	02	3.795E-03	1.169E-03	00	1.900E-03	8.855E-03	8.855E-03	8.855E-03
125	5.584E	2.404E-02	02	3.719E-03	6.775E-04	00	1.900E-03	8.855E-03	8.855E-03	8.855E-03
150	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
175	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
200	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
250	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
300	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
350	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
400	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
450	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
500	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
600	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
800	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
1000	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
1200	5.567E	2.357E-02	02	3.539E-03	6.225E-04	00	6.015E-03	5.655E-03	5.655E-03	5.655E-03
TOTAL ENERGY DEPOSITION/SEC	6.573E	8.333E	06	1.281E	6.335E	05	4.044E	2.430E	2.430E	2.430E

TABLE XIV. (Continued)

		(keV m ⁻³ sec ⁻¹ /keV of source energy)									
		8.00 TO 9.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
		1.50E-07	2.00E-07	3.00E-07	5.00E-07	7.00E-07	1.00E-06	1.50E-06	2.00E-06	3.00E-06	4.00E-06
0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	175	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	250	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	300	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	350	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	400	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	450	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	500	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	800	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	1000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	1200	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL ENERGY DEPOSITION/SEC		1.640E 05	1.035E 05	5.671E 04	3.477E 04	2.251E 04	1.406E 04	8.858E 03	5.485E 03	3.485E 03	2.251E 03

TABLE XIV. (Continued)

		$(\text{keV m}^{-3} \text{sec}^{-1} / \text{keV of source energy})$		8.00 TO 9.00 MEV GAMMAS									
		DELAY TIME (SEC)		3.00E-06		5.00E-06		7.00E-06		7.00E-06		1.00E-05	
		RADIAL DISTANCE		1.50E-06		2.00E-06		3.00E-06		3.00E-06		3.00E-06	
		INTERVAL (METERS)		1.50E-06		2.00E-06		3.00E-06		3.00E-06		3.00E-06	
10.0	0.0	10.0	0.0	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05	5.150E-05
20.0	0.0	20.0	0.0	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05	4.267E-05
40.0	0.0	40.0	0.0	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05	1.190E-05
60.0	0.0	60.0	0.0	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05	1.330E-05
80.0	0.0	80.0	0.0	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05	1.125E-05
100.0	0.0	100.0	0.0	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05	1.150E-05
125.0	0.0	125.0	0.0	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05	1.175E-05
150.0	0.0	150.0	0.0	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05	1.200E-05
175.0	0.0	175.0	0.0	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05
200.0	0.0	200.0	0.0	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05	1.250E-05
250.0	0.0	250.0	0.0	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05	1.300E-05
350.0	0.0	350.0	0.0	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05	1.400E-05
450.0	0.0	450.0	0.0	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05	1.500E-05
500.0	0.0	500.0	0.0	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05	1.600E-05
600.0	0.0	600.0	0.0	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05	1.700E-05
800.0	0.0	800.0	0.0	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05	1.800E-05
1000.0	0.0	1000.0	0.0	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05	1.900E-05
1200.0	0.0	1200.0	0.0	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05	2.000E-05
TOTAL ENERGY DEPOSITION/SEC				8.118E 03	3.795E 03	3.795E 03	6.808E 02	2.990E 01	6.822E -01	6.822E -01	6.822E -01	6.822E -01	6.822E -01

TABLE XV.
TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS
RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-
RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY
INTERVAL FROM 9.0 TO 10.0 MeV

(keV m⁻³ sec⁻¹/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC)											
	0.0E-00	1.00E-20	2.00E-08	5.00E-08	7.00E-08	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07
0.0	4.234E	2.293E	1.09E-01	3.669E-02	4.620E-02	7.310E-07	7.310E-07	7.310E-07	7.310E-07	7.310E-07	7.310E-07	7.310E-07
10.0	6.035E	4.929E	1.705E-02	1.6019E-02	4.919E-02	3.175E-07	3.175E-07	3.175E-07	3.175E-07	3.175E-07	3.175E-07	3.175E-07
20.0	1.841E	1.170E	9.40E-03	1.540E-02	1.168E-02	3.287E-07	3.287E-07	3.287E-07	3.287E-07	3.287E-07	3.287E-07	3.287E-07
40.0	4.484E	3.123E	6.45E-03	4.662E-03	3.398E-03	2.288E-07	2.288E-07	2.288E-07	2.288E-07	2.288E-07	2.288E-07	2.288E-07
60.0	2.458E	1.714E	5.275E-03	1.978E-03	1.361E-03	1.149E-07	1.149E-07	1.149E-07	1.149E-07	1.149E-07	1.149E-07	1.149E-07
80.0	1.840E	1.545E	3.686E-03	1.772E-03	1.500E-03	8.970E-07	8.970E-07	8.970E-07	8.970E-07	8.970E-07	8.970E-07	8.970E-07
100.0	4.985E	4.257E	6.68E-03	3.11E-03	1.500E-03	4.945E-07	4.945E-07	4.945E-07	4.945E-07	4.945E-07	4.945E-07	4.945E-07
125.0	3.507E	2.801E	4.59E-03	1.820E-03	1.255E-03	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07
150.0	2.496E	2.401E	3.37E-03	1.320E-03	8.655E-04	3.254E-07	3.254E-07	3.254E-07	3.254E-07	3.254E-07	3.254E-07	3.254E-07
175.0	3.965E	3.405E	6.64E-03	3.02E-03	1.655E-03	2.474E-07	2.474E-07	2.474E-07	2.474E-07	2.474E-07	2.474E-07	2.474E-07
200.0	2.305E	1.495E	1.05E-04	3.15E-04	2.220E-04	1.180E-07	1.180E-07	1.180E-07	1.180E-07	1.180E-07	1.180E-07	1.180E-07
250.0	5.801E	5.350E	2.23E-04	3.75E-04	2.468E-04	1.324E-07	1.324E-07	1.324E-07	1.324E-07	1.324E-07	1.324E-07	1.324E-07
300.0	1.181E	1.636E	4.36E-04	1.073E-04	4.90E-04	9.655E-07	9.655E-07	9.655E-07	9.655E-07	9.655E-07	9.655E-07	9.655E-07
350.0	4.865E	3.770E	9.79E-04	3.69E-04	1.469E-04	6.535E-07	6.535E-07	6.535E-07	6.535E-07	6.535E-07	6.535E-07	6.535E-07
400.0	1.155E	1.870E	2.75E-04	1.705E-04	1.020E-04	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07
450.0	3.865E	3.180E	7.25E-04	4.31E-04	1.840E-04	5.005E-07	5.005E-07	5.005E-07	5.005E-07	5.005E-07	5.005E-07	5.005E-07
500.0	1.817E	3.880E	1.750E-04	7.05E-05	2.98E-05	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07	3.279E-07
600.0	6.390E	3.464E	4.46E-05	1.315E-05	5.631E-06	1.937E-06	1.937E-06	1.937E-06	1.937E-06	1.937E-06	1.937E-06	1.937E-06
800.0	2.178E	1.200E	1.907E-05	8.190E-06	1.819E-06	2.937E-06	2.937E-06	2.937E-06	2.937E-06	2.937E-06	2.937E-06	2.937E-06
1000.0	6.679E	8.316E	1.178E-06	5.378E-05	3.664E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05
1200.0												
TOTAL ENERGY DEPOSITION/SEC	6.679E	8.316E	1.178E-06	5.378E-05	3.664E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05	2.183E-05

TABLE XV. (Continued)

(keV m ⁻³ sec ⁻¹ /keV of source energy)										
9.00 TO 10.00 MEV GAMMAS										
DELAY TIME (SEC)										
RADIAL DISTANCE INTERVAL (METERS)	1.50E-07		2.00E-07		3.00E-07		5.00E-07		7.00E-07	
	1.50E-07	2.00E-07	1.50E-07	2.00E-07	1.50E-07	2.00E-07	1.50E-07	2.00E-07	1.50E-07	2.00E-07
10.0	0.00E+00	0.00E+00	1.478E-02	1.230E-02	0.00E+00	0.00E+00	4.698E-04	3.198E-04	1.98E-04	0.00E-06
20.0	7.99E-03	1.956E-02	1.478E-02	1.230E-02	7.595E-04	0.00E+00	5.299E-04	3.198E-04	1.455E-04	0.00E-06
40.0	1.89E-02	4.45E-02	1.897E-02	1.600E-02	2.974E-04	0.00E+00	1.370E-04	1.370E-04	1.632E-04	0.00E-06
60.0	4.45E-02	1.10E-01	2.400E-02	2.180E-02	3.327E-04	0.00E+00	1.972E-04	1.972E-04	1.097E-04	0.00E-06
80.0	9.45E-02	2.40E-01	4.600E-02	4.200E-02	2.416E-04	0.00E+00	2.127E-04	2.127E-04	1.510E-04	0.00E-06
100.0	1.60E-01	4.10E-01	5.800E-02	5.200E-02	1.411E-04	0.00E+00	1.408E-04	1.408E-04	9.625E-05	0.00E-06
125.0	2.65E-01	6.55E-01	8.200E-02	7.900E-02	1.133E-04	0.00E+00	1.150E-04	1.150E-04	6.400E-05	0.00E-06
150.0	4.13E-01	1.00E-01	1.429E-01	1.429E-01	8.645E-05	0.00E+00	8.795E-05	8.795E-05	4.760E-05	0.00E-06
175.0	6.40E-01	1.54E-01	1.849E-01	1.849E-01	5.600E-05	0.00E+00	6.557E-05	6.557E-05	3.564E-05	0.00E-06
200.0	9.40E-01	2.20E-01	2.400E-01	2.400E-01	3.834E-05	0.00E+00	3.906E-05	3.906E-05	2.094E-05	0.00E-06
250.0	1.60E-01	4.10E-01	3.315E-01	3.315E-01	1.214E-05	0.00E+00	2.633E-05	2.633E-05	1.456E-05	0.00E-06
300.0	2.65E-01	6.55E-01	4.244E-01	4.244E-01	3.143E-06	0.00E+00	2.410E-05	2.410E-05	1.357E-05	0.00E-06
350.0	4.13E-01	1.00E-01	5.296E-01	5.296E-01	1.073E-06	0.00E+00	1.145E-05	1.145E-05	6.190E-06	0.00E-06
400.0	6.40E-01	1.54E-01	6.830E-01	6.830E-01	3.163E-06	0.00E+00	8.431E-06	8.431E-06	4.575E-06	0.00E-06
450.0	9.40E-01	2.20E-01	8.985E-01	8.985E-01	1.635E-06	0.00E+00	6.478E-06	6.478E-06	3.522E-06	0.00E-06
500.0	1.60E-01	4.10E-01	1.178E-01	1.178E-01	7.065E-07	0.00E+00	3.478E-06	3.478E-06	1.865E-06	0.00E-06
600.0	2.65E-01	6.55E-01	1.537E-01	1.537E-01	1.635E-07	0.00E+00	1.840E-06	1.840E-06	1.131E-06	0.00E-06
800.0	4.13E-01	1.00E-01	2.781E-01	2.781E-01	1.635E-07	0.00E+00	1.840E-06	1.840E-06	1.131E-06	0.00E-06
1000.0	6.40E-01	1.54E-01	3.781E-01	3.781E-01	1.635E-07	0.00E+00	1.840E-06	1.840E-06	1.131E-06	0.00E-06
1200.0	9.40E-01	2.20E-01	5.010E-01	5.010E-01	1.635E-07	0.00E+00	1.840E-06	1.840E-06	1.131E-06	0.00E-06
TOTAL ENERGY DEPOSITION/SEC										
	1.451E 05	9.010E 04	5.396E 04	3.122E 04	2.059E 04	1.290E 04	8.612E 03	5.612E 03	3.612E 03	2.312E 03

TABLE XV. (Continued)

(keV m⁻³ sec⁻¹/keV of source energy)

		9.00 TO 10.00 MEV GAMMAS									
		DELAY TIME (SEC)									
RADIAL DISTANCE INTERVAL (METERS)		1.50E-06		2.00E-06		3.00E-06		5.00E-06		7.00E-06	
		1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06	1.50E-06	2.00E-06
10.00	10.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.00	20.00	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06	0.570E-06
40.00	40.00	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06	1.656E-06
60.00	60.00	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06	3.417E-06
80.00	80.00	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06	6.181E-06
100.00	100.00	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05	1.017E-05
125.00	125.00	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05	1.786E-05
150.00	150.00	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05	2.940E-05
175.00	175.00	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05	4.407E-05
200.00	200.00	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05	6.397E-05
250.00	250.00	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04	1.397E-04
300.00	300.00	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04	2.397E-04
350.00	350.00	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04	3.697E-04
400.00	400.00	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04	5.397E-04
450.00	450.00	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04	7.697E-04
500.00	500.00	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03	1.069E-03
550.00	550.00	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03	1.469E-03
600.00	600.00	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03	1.969E-03
800.00	800.00	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03	3.469E-03
1000.00	1000.00	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03	5.969E-03
1200.00	1200.00	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03	7.710E-03
TOTAL ENERGY DEPOSITION/SEC		7.726E 03	3.592E 03	6.279E 02	2.772E 01	4.373E -01	5.448E -02	7.230E -03	1.000E -03	1.300E -04	1.600E -05

TABLE XVI. TOTAL ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE AND SOURCE ENERGY INTERVAL
FOR POINT ISOTROPIC GAMMA-RAY SOURCES

		(keV m ⁻³ /keV of source energy)									
RADIAL DISTANCE INTERVAL (METERS)		SOURCE ENERGY (MEV)					PRIMARY GAMMAS ENERGY BOUNDS (MEV)				
		8.00	9.00	7.00	8.00	6.00	7.00	5.00	6.00	4.00	5.00
0.0	0.0	4.207E-06	4.690E-06	4.506E-06	4.651E-06	4.651E-06	4.651E-06	5.035E-06	5.035E-06	5.020E-06	5.020E-06
10.0	10.0	5.435E-07	6.450E-07	6.070E-07	6.550E-07	6.550E-07	6.550E-07	7.120E-07	7.120E-07	7.085E-07	7.085E-07
20.0	20.0	1.507E-07	1.533E-07	1.542E-07	1.635E-07	1.635E-07	1.635E-07	1.700E-07	1.700E-07	1.695E-07	1.695E-07
40.0	40.0	1.740E-08	1.555E-08	1.455E-08	1.590E-08	1.590E-08	1.590E-08	1.685E-08	1.685E-08	1.680E-08	1.680E-08
60.0	60.0	2.533E-08	2.871E-08	2.662E-08	3.152E-08	3.152E-08	3.152E-08	3.379E-08	3.379E-08	3.365E-08	3.365E-08
80.0	80.0	1.546E-08	1.546E-08	1.603E-08	1.603E-08	1.603E-08	1.603E-08	1.723E-08	1.723E-08	1.710E-08	1.710E-08
100.0	100.0	1.022E-08	1.022E-08	1.054E-08	1.054E-08	1.054E-08	1.054E-08	1.100E-08	1.100E-08	1.090E-08	1.090E-08
125.0	125.0	6.845E-09	6.452E-09	6.109E-09	6.735E-09	6.735E-09	6.735E-09	7.287E-09	7.287E-09	7.155E-09	7.155E-09
150.0	150.0	4.513E-09	4.144E-09	4.224E-09	4.387E-09	4.387E-09	4.387E-09	4.534E-09	4.534E-09	4.402E-09	4.402E-09
175.0	175.0	3.263E-09	3.153E-09	3.293E-09	3.293E-09	3.293E-09	3.293E-09	3.399E-09	3.399E-09	3.322E-09	3.322E-09
200.0	200.0	2.089E-09	1.928E-09	1.815E-09	1.945E-09	1.945E-09	1.945E-09	2.000E-09	2.000E-09	1.909E-09	1.909E-09
250.0	250.0	1.272E-09	1.175E-09	1.150E-09	1.270E-09	1.270E-09	1.270E-09	1.315E-09	1.315E-09	1.240E-09	1.240E-09
300.0	300.0	8.570E-10	8.673E-10	8.500E-10	8.500E-10	8.500E-10	8.500E-10	8.700E-10	8.700E-10	8.400E-10	8.400E-10
350.0	350.0	5.760E-10	5.673E-10	5.000E-10	5.000E-10	5.000E-10	5.000E-10	5.200E-10	5.200E-10	4.900E-10	4.900E-10
400.0	400.0	3.760E-10	3.673E-10	3.000E-10	3.000E-10	3.000E-10	3.000E-10	3.200E-10	3.200E-10	2.900E-10	2.900E-10
450.0	450.0	2.884E-10	2.840E-10	2.857E-10	2.857E-10	2.857E-10	2.857E-10	2.857E-10	2.857E-10	2.857E-10	2.857E-10
500.0	500.0	1.884E-10	1.840E-10	1.857E-10	1.857E-10	1.857E-10	1.857E-10	1.857E-10	1.857E-10	1.857E-10	1.857E-10
600.0	600.0	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11	7.955E-11
800.0	800.0	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11	3.149E-11
1000.0	1000.0	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11	1.449E-11
1200.0	1200.0	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12	5.790E-12
1500.0	1500.0	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12	1.449E-12
TOTAL	TOTAL (keV/keV)	9.593E-01	9.570E-01	9.612E-01	9.612E-01	9.712E-01	9.712E-01	9.788E-01	9.788E-01	9.846E-01	9.846E-01

TABLE XVI. (Continued)

(keV m⁻³/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	SOURCE ENERGY BOUNDS (MEV)					PRIMARY GAMMAS					
	3.00	4.00	2.00	3.00	1.00	2.00	.50	1.00	.50	.01	.10
0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0
200	0	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0	0	0
300	0	0	0	0	0	0	0	0	0	0	0
350	0	0	0	0	0	0	0	0	0	0	0
400	0	0	0	0	0	0	0	0	0	0	0
450	0	0	0	0	0	0	0	0	0	0	0
500	0	0	0	0	0	0	0	0	0	0	0
600	0	0	0	0	0	0	0	0	0	0	0
800	0	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0	0
1200	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9.890E-01	9.890E-01	9.928E-01	9.928E-01	9.965E-01	9.965E-01	9.971E-01	9.971E-01	9.916E-01	9.697E-01	9.697E-01

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